

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report

City: City of Fairfax

Street: Sager Ave. #6 Red

A study of vehicle traffic was conducted with HI-STAR unit number 1042. The study was done in the East Bound lane on Sager Ave. using counter #6 Red as shown on attached drawing. The counter was placed West of the crosswalk at the bottom of the hill after Barbour Ave. The study began on 01/06/2004 at 12:00 PM and concluded on 01/09/2004 at 12:00 PM, lasting a total of 72 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 7,250 vehicles passed through the location with a peak volume of 363 on 01/06/2004 at 05:00 PM and a minimum volume of 3 on 01/07/2004 at 03:00 AM. The AADT Count for this study was 2,417.

#### **SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	44	116	503	2133	2626	934	427

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 31 mph with 90.2 percent exceeding the posted speed of 25 mph. The HI-STAR found 20.0 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 36.84 mph.

#### **CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
6410	268	87	14	3	1	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 6,678 which represents 98.50 percent of the total classified vehicles. The number of Small Trucks in the study was 87 which represents 1.30 percent of the total classified vehicles. The number of Trucks/Buses in the study was 14 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 4 which represents 0.10 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 01/06/2004 at 05:00 PM the average headway between the vehicles was 9.89 seconds. The slowest traffic period was on 01/07/2004 at 03:00 AM. During this slowest

period, the average headway was 900.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 23 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 91.67 percent of the time.